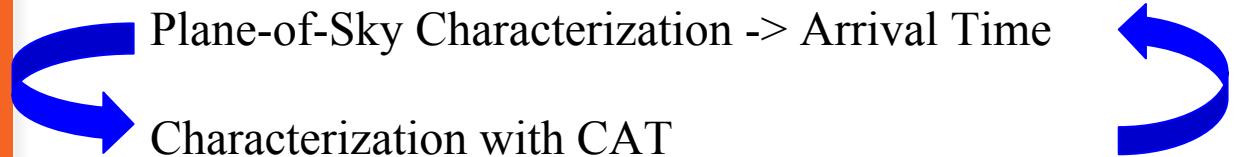

User Needs (Forecasting)

Rob Steenburgh
Space Weather Prediction Center

CME Arrival, Impacts FCST

Situational Awareness

Detection



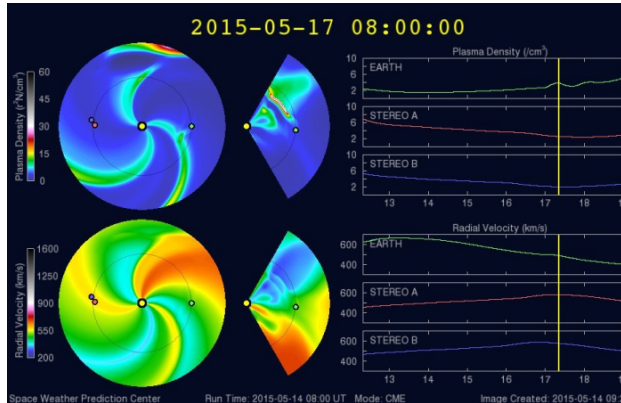
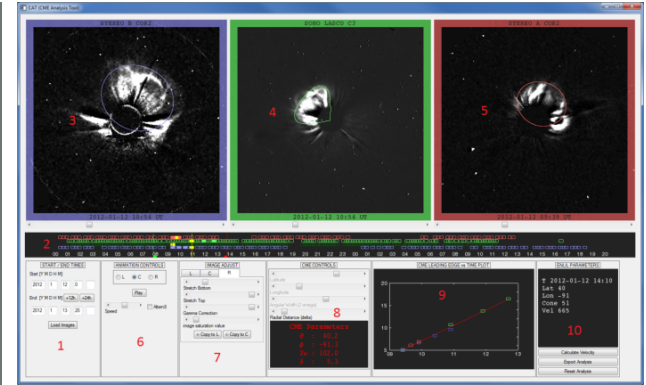
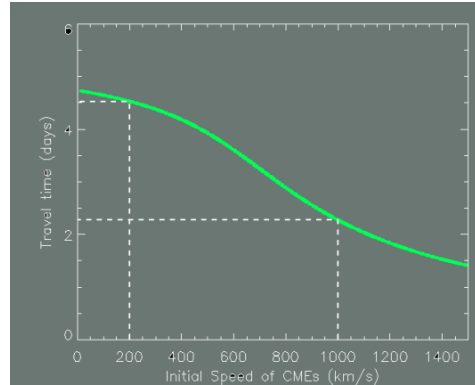
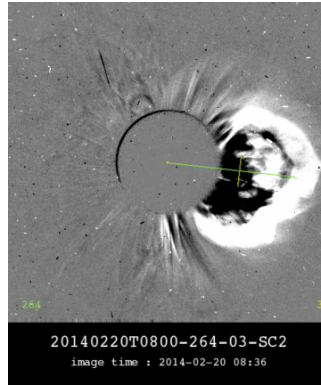
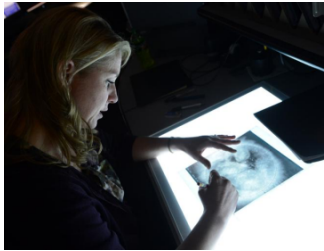
Modeling (WSA-Enlil on WCOSS) -> Arrival Time

Predicting Storm Strength?

Crafting the Message

Watch - Warning - Alert

CME Arrival & Impacts Forecast



CME Arrival, Impacts FCST

Situational Awareness

Detection

Plane-of-Sky Characterization -> Arrival Time



Predicting Storm Strength?

Crafting the Message

Watch - Warning - Alert

Users & Needs



SWPC Forecasters
provide Integrated
Decision Support
Services (IDSS) to:

Emergency Managers

Electric Utilities

Transportation Industry

Space Industry

...Pigeon Racers

Forecasters need to know:

What's inside

Confidence Intervals

Model Strengths and Weaknesses

Results of ongoing Model V&V

Value Added by Forecaster-in-the-Loop

End Users need to know:

Timing, Intensity,
Duration of IMPACTS

FCST Confidence

Scenarios (best, worst,
most likely cases)

Thank You

Rob Steenburgh
SWPC

[robert.steenburgh@
noaa.gov](mailto:robert.steenburgh@noaa.gov)

(303) 497 5153

DON'T WORRY WE'LL FIGURE IT OUT

